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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 5

Complete if Known

Application Number 09/779,693
Filing Date February 7, 2001
First Named Inventor Rothbard, Jonathan B.
Group Art Unit 4614 1614
Examiner Name Unassigned J. James
Attorney Docket Number 019801-000110US

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
PG	A	4,532,207		Brewer et al.	07-30-1985	
	B	4,631,190		Shen et al.	12-23-1986	
	C	4,046,722		Rowland	09-06-1977	
	D	4,701,521		Ryser et al.	10-20-1987	
	E	4,847,240		Ryser et al.	07-11-1989	
	F	4,880,911		Brewer et al.	11-14-1989	
	G	5,028,707		Nichols et al.	07-02-1991	
	H	5,162,505		Dean et al.	11-10-1992	
	I	5,354,844		Beug et al.	10-11-1994	
	J	5,362,831		Mongelli et al.	11-08-1994	
	K	5,633,230		Twist et al.	05-27-1997	
	L	5,646,120		Sumner-Smith et al.	07-08-1997	
	M	5,674,849		Twist et al.	10-07-1997	
	N	5,716,614		Katz et al.	02-10-1998	
	O	5,783,178		Kabanov et al.	07-21-1998	
	P	5,789,531		Sumner-Smith et al.	08-04-1998	
	Q	5,795,909		Shashoua	08-18-1998	
	R	5,831,001		Twist et al.	11-03-1998	
	S	5,977,163		Li et al.	11-02-1999	
	T	6,077,835		Hanson et al.	06-20-2000	

class/subcls

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
PG	U	CA	2,094,658		Sumner-Smith et al.	10-24-1993		
	V	EP	EP 0 009 498		Ryser et al.	06-27-1984		
	W	EP	EP 0 599 303		Fukuta et al.	11-25-1993		
	X	JP	JP 10 0095738		Muramoto et al.	04-14-1998		
	Y	PCT	WO 01/13957		Rothbard et al.	03-01-2001		
	Z	PCT	WO 79/00515		Ryser et al.	08-09-1979		
	AA	PCT	WO 91/09958		Frankel et al.	07-11-1991		

Translation

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PG James

Date
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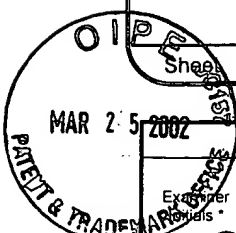
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Sheet 2 of 5

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Application Number 09/779,693
Filing Date February 7, 2001
First Named Inventor Rothbard, Jonathan B.
Group Art Unit 1614
Examiner Name Unassigned
Attorney Docket Number 019801-000110US

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	AB	PCT	WO 92/07871	/	Sumner-Smith et al.	05-14-1992		
	AC	PCT	WO 93/04701	/	Wu et al.	03-18-1993		
	AD	PCT	WO 93/21941	/	Twist et al.	11-11-1993		
	AE	PCT	WO 94/04686	/	Barsoum et al.	03-03-1994		
	AF	PCT	WO 94/14464	/	Twist et al.	07-07-1994		
	AG	PCT	WO 95/11038	/	Twist et al.	04-27-1995		
	AH	PCT	WO 96/21036	/	De Polo et al.	07-11-1996		
	AI	PCT	WO 97/33552	/	Li et al.	09-18-1997		
	AJ	PCT	WO 97/40854	/	Summerton et al.	11-06-1997		
	AK	PCT	WO 98/52614	/	Rothbard et al.	11-26-1998		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 5

Complete if Known

Application Number 09/779,693
Filing Date February 7, 2001
First Named Inventor Rothbard, Jonathan B.
Group Art Unit 1614
Examiner Name Unassigned
Attorney Docket Number 019801-000110US

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
109	AL	Arbuck, S.G., et al., "Taxol: Clinical Results and Current Issues in Development," Chapter 14 in <u>Taxol: Science and Applications</u> , Suffness, M., (Ed.) CRC Press, New York NY, pp. 379-415 (1995).
	AM	Balicki, D., et al., "Histone H2A Significantly Enhances In Vitro DNA Transfection," <u>Molec. Med.</u> 3:782-787 (1997).
	AN	Boussif, O., et al., "A versatile vector for gene and oligonucleotide transfer into cells in culture and <i>in vivo</i> : Polyethylenimine," <u>Proc. Natl. Acad. Sci.</u> 92:7297-7301 (1995).
	AO	Brugidou, J., et al., "The <i>Retro-Inverso</i> Form of a Homeobox-Derived Short Peptide in Rapidly Internalised by Cultured Neurons: A New Basis For An Efficient Intracellular Delivery System," <u>Biochem. Biophys. Res. Comm.</u> 214:685-693 (1995).
	AP	Burton, K.A., et al., "Basic polyelectrolytes and protein transport across the new-born pig intestine," <u>Phys. Soc.</u> 211(2): 27P-28P (1970).
	AQ	Buschle, M., et al., "Transloading of tumor antigen-derived peptides in antigen-presenting cells," <u>Proc. Natl. Acad. Sci.</u> 94:3256-3261 (1997).
	AR	Chen, J., et al., "Galactosylated Histone-Mediated Gene Transfer and Expression," <u>Human Gene Ther.</u> 5:429-435 (1994).
	AS	DATABASE WPI Section CH, Week 199825 Derwent Publications Ltd., London, GB; Class A23, AN 1998-280379 XP002167568 & JP 10 095738 a (TTS GIJUTSU KENKYUSHO KK), 12 April 1998 (1998-04-14) abstract
	AT	de Bont, D.B.A., et al., "Synthesis and Biological Activity of Beta-Glucuronyl Carbamate-Based Prodrugs of Paclitaxel as Potential Candidates for ADEPT," <u>Bioorganic & Med. Chem.</u> 5:405-414 (1997).
	AU	Derossi, D., et al., "The Third Helix of Antennapedia Homeodomain Translocates through Biological Membranes," <u>J. Bio. Chem.</u> 269:10444-10450 (1994).
	AV	Devlin, T., et al., "Textbook of Biochemistry," (Wiley-Liss) 3rd Ed., pp. 974-975 (1992).
	AW	Elferink, J.G.R., "Changes of Plasma Membranes Permeability in Neutrophils Treated with Polycations," <u>Inflammation</u> 15:103-115 (1991).
	AX	Emi, N., et al., "Gene Transfer Mediated by Polyarginine Requires a Formation of Big Carrier-Complex of DNA Aggregate," <u>Biochem. Biophys. Res. Comm.</u> 231:421-424 (1997).
	AY	Fawell, S., et al., "Tat-mediated delivery of heterologous proteins into cells," <u>Proc. Natl. Acad. Sci.</u> 91:664-668 (1994).

Examiner Signature

[Signature]

Date Considered

5/27/03

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 4 of 5

Complete if Known

Application Number 09/779,693
Filing Date February 7, 2001
First Named Inventor Rothbard, Jonathan B.
Group Art Unit 1614 1616
Examiner Name Unassigned D. Song
Attorney Docket Number 019801-000110US

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
<u>WJ</u>	AZ	Fletcher, M.D., et al., "Partially Modified Retro-Inversa Peptides: Development, Synthesis and Conformational Behavior," <u>Chem. Rev.</u> 98:763-795 (1998).
	BA	Georg, G.I., "The Medicinal Chemistry of Taxols", Chapter 13 in <u>Taxol: Science and Applications</u> , Suffness, M., (Ed.), CRC Press, New York NY, pp. 317-375 (1995).
	BB	Golik, J., et al., "Synthesis and Antitumor Evaluation of Paclitaxel Phosphonooxymethyl Ethers: A Novel Class of Water Soluble Paclitaxel Pro-Drugs," <u>Bioorganic & Med. Chem. Letters</u> 6: 1837-1842 (1996).
	BC	Greenwald, R.B., et al., "Drug Delivery Systems: Water Soluble Taxol 2'-Poly (ethylene glycol) Ester Prodrugs - Design and <i>in vivo</i> Effectiveness," <u>J. Med. Chem.</u> 39:424-431 (1996).
	BD	Hamy, F., et al., "An inhibitor of the Tat/TAR RNA interaction that effectively suppresses HIV-1 replication," <u>Proc. Natl. Acad. Sci. USA</u> 94:3548-3553 (1997).
	BE	Kessler, H., "Peptoids-A New Approach to the Development of Pharmaceuticals," <u>Angew. Chem. Int. Ed. Engl.</u> 32:543-544 (1993).
	BF	Khmelnitsky, Y., et al., "Generation of Solution-Phase Libraries of Organic Molecules by Combinatorial Biocatalysis," (Mol. Div. Comb. Chem.), <u>Am. Chem. Soc.</u> , pp. 144-157 (1996).
	BG	Kingston, D.G.I., "Natural Taxoids: Structure and Chemistry," Chapter 12 in <u>Taxol: Science and Applications</u> , Suffness, M.,(Ed.), CRC press, New York NY, pp. 287-315 (1995).
	BH	Lam, K.S., "The 'One-Bead-One-Compound' Combinatorial Library Method," <u>Chem. Rev.</u> 97:411-448 (1997).
	BI	Mauersberger, B., et al., "Studies on the cytotoxicity of poly-L-arginine, poly-L-lysine and DEAE-dextran in L-cells and mouse embryonic fibroblasts," <u>Exp. Pathol.</u> (JENA) 13:268-273 (1997).
	BJ	Murphy, J., et al., "A combinatorial approach to the discovery of efficient cationic peptoid reagents for gene delivery," <u>Proc. Natl. Acad. Sci.</u> 95:1517-1522 (1998).
	BK	Natsume, H., et al., "Screening of Absorption Enhancers for Nasal Peptide and Protein Delivery," <u>Proc. Int. Symp. Controlled Release Biocat. Mater.</u> , pp. 481-482, (1996).
	BL	Nicolaou, K.C., et al., "Design, synthesis and biological activity of protaxols," <u>Nature</u> 364:464-466 (1993).
	BM	Rodi et al., "Screening of a Library of Phage-displayed Peptides Identifies Human Bcl-2 as a Taxol-binding Protein," <u>J. Mol. Bio.</u> , 285:197-203, (1999). abstract
<u>WJ</u>	BN	Rodrigues, M., et al., "Synthesis and beta-lactamase-mediated activation of a cephalosporin-taxol prodrug," <u>Chem. & Bio.</u> 2:223-227 (1995).

Examiner Signature <u>[Signature]</u>	Date Considered <u>5/27/03</u>
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Sheet 5 of 5

Complete if Known

Application Number	09/779,693
Filing Date	February 7, 2001
First Named Inventor	Rothbard, Jonathan B.
Group Art Unit	1614 / 1614
Examiner Name	Unassigned
Attorney Docket Number	019801-000110US

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<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> MAR 25 2002 PATENT & TRADEMARK OFFICE </div>	BO	Rose, W.C., "Preclinical Antitumor Activity of Taxanes," Chapter 8 in <u>Taxol: Science and Applications</u> , Suffness, M., (Ed.), CRC Press, New York NY, pp. 209-235 (1995).
	BP	Sigma Catalog, pp. 1715 & 1721, 1991
	BQ	Simon et al., "Peptoids: A modular approach to drug discovery," <u>Proc. Natl. Acad. Sci.</u> 89:9367-9371 (1992).
	BR	Straubinger, R.M., "Biopharmaceutics of Paclitaxel (Taxol): Formulation, Activity, and Pharmacokinetics," Chapter 9 in <u>Taxol: Science and Applications</u> , Suffness, M., (Ed.), CRC Press, New York, NY, pp. 237-258 (1995).
	BS	Sumner-Smith, M., et al., "Antiherpetic activities of N- α -acetyl-non-D-arginine amide acetate," <u>Chem. Abs.</u> vol. 123, No. 7, ABS. No. 79357 (1995).
	BT	Thompson, L.A., et al., J.A., "Synthesis and Applications of Small Molecule Libraries," <u>Chem. Rev.</u> 96:555-600 (1996).
	BU	Tzan, C.J., et al., "Modification of epithelial permeability by cationic polypeptides," <u>Am. J. of Physiology Soc., Cell Physiology</u> , American Physiological Society, US, Vol. 265, No. 6, PART 01, 1993, pp. C1637-C1647, XP000953297 ISSN: 036306143 abstract
	BV	Uchida, M.D., et al., "Polycations Decrease the Transepithelial Resistance of Cultured Tracheal Epithelial Cells," <u>CHEST</u> 101: (suppl.):33S (1992).
	BW	Ueda, Y., et al., "Novel Water Soluble Phosphate Prodrugs of Taxol Process <i>in vivo</i> Antitumor Activity," <u>Bioorganic & Med. Chem. Letters</u> 3:1761-1766(1993).
	BX	Ueda, Y., et al., "Synthesis and Antitumor Evaluation of 2'-Oxycarbonylpaclitaxels (Paclitaxel-2'-Carbonates)," <u>Bioorganic & Med. Chem. Letters</u> 4:1861-1864 (1994).
	BY	Vyas, D.M., et al., "Phosphatase-Activated Prodrugs of Paclitaxel," Chapter 9 in <u>Taxane Anticancer Agents</u> , American Chemical Society, Washington D.C., pp. 124-137 (1995).
	BZ	Vyas, D.M., et al., "Synthesis and Antitumor Evaluation of Water Soluble Taxol Phosphates," <u>Bioorganic & Med. Chem. Letters</u> 3:1357-1360 (1993).
	CA	Zuckermann, R.M., et al., "Efficient Method for the Preparation of Peptoids [Ogly(N-substituted glycines)] by Submonomer Solid-Phase Synthesis," <u>Chem. Soc.</u> 114:80-83 (1992).

Examiner Signature		Date Considered	5/7/03
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